ADSL USB Modem
User's Manual

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1. Introduction

This ADSL USB Modem powered by Conexant chipset. It is featuring “always-on” function and enables high-speed broadband connection from Internet to end-users. This ADSL USB Modem ensures not only maximum performance, but also significantly simpler handling process.

This ADSL USB Modem is fully compliant with ANSI T1.413 Issue 2, ITU-T G.dmt, ITU-T G.lite standards. Using existing twisted-pair telephone lines, ADSL technology provides data rate more than 100 times faster than a traditional analog modem without interruption of telephone service.

1.1 System Requirements

- Pentium II 233MHz processor or above
- At lease 32MB RAM (64MB recommended)
- 20MB available hard disk or more
- Windows 98SE/2000/ME/XP
- Available USB port
- CD-ROM drive
- ADSL service enabled on your telephone line
- Windows 98SE installation CD, which will be prompted for during installation

1.2 Package Contents

- ADSL Modem
- RJ-11 Cable
- USB Cable
- Software driver CD
- EZ setup guide

If any of above items is missing or damaged, please contact your local dealer immediately.

2. Product Features

2.1 Specification

- ANSI T1.413 issue 2
- ITU G.992.1 (G.DMT)
- ITU G.992.2 (G.lite)
- G.994.1 (G.hs, Multimode)
- ADSL over POTS (Annex A) or ADSL over ISDN (Annex B/UR2)
- Maximum downstream rate up to 8Mbps
- Maximum upstream rate up to 1Mbps
- RFC 1483 BPDU (Bridge Ethernet over ATM)
- RFC 1577 (Classic IP over ATM)
- RFC 2364 (PPP over ATM)
- RFC 2516 (PPP over Ethernet)

2.2 Encapsulation Mode

For WAN Connection

- PPP over ATM VCMUX (RFC 2364) (WAN)
- PPP over ATM LLC (RFC 2364) (WAN)
- PPP over Ethernet VCMUX (RFC 2516) (WAN)
- PPP over Ethernet LLCSNAP (RFC 2516) (WAN)

For LAN Connection

- Bridged IP over ATM LLCSNAP (RFC 1483) (LAN)
- Bridged IP over ATM VCMUX (RFC 1483) (LAN)
- Routed IP over ATM LLCSNAP (RFC 1483) (LAN)
- Classical IP over ATM (RFC 1577) (LAN)

VPI / VCI Settings

- VPI value: 0~255
- VCI value: 32~1023

2.3 Interface

- ADSL: ADSL line through RJ-11 connector
- USB: 1.1 compliant, maximum transferring rate up to 12Mbps

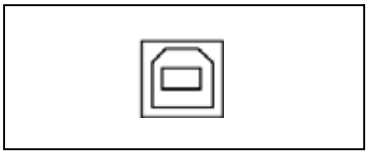
3. Hardware Indicators and Connectors

3.1 LED descriptions

- When modem is establishing the connection, the LED will be blinking.
- When modem is connected, the LED will be on steadily.

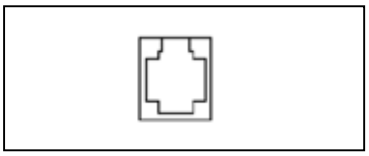
3.2 Front Panel

Connect this connector with Type-B end of USB cable.



3.3 Rear Panel

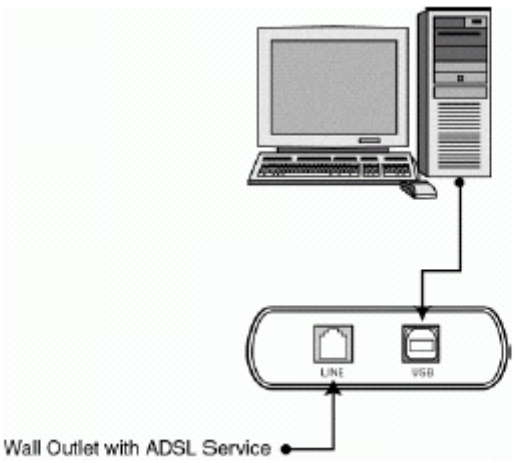
Connect this connector with RJ-11 cable.



3.4 Connect the Related Devices

1) Connect the provided RJ-11 cable into **LINE** port on the real panel of the modem and insert the other end to splitter.
2) Connect the Type-A end of USB cable to your PC.

The diagram below illustrates a connection example,



4. Driver Installation

4.1 Installing ADSL USB Modem

The ADSL USB modem is an USB 1.1 compliant device, therefore, you need to install the USB device driver before use it.

4.1.1 For Windows 98SE and ME:

1) When detect new hardware window appears, click **"Cancel"**:

Add New Hardware Wizard
This wizard searches for new drivers for:
ADSL USB MODEM
A device driver is a software program that makes a hardware device work.
< Back
Next >
Cancel

2) Insert "**Easy Setup Software Kit**", front page of Easy Setup window will appear,

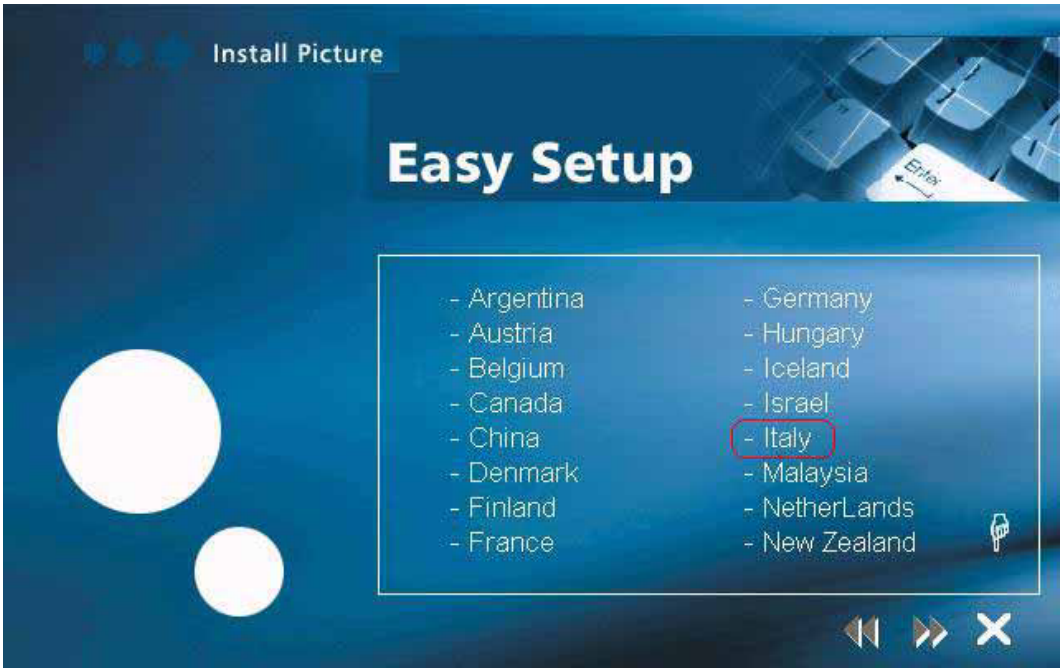
Install Driver: Click here to install ADSL USB modem driver.

User Manual "Conexant AccessRunner USB ADSL"**:** Click here to read user's manual.

Acrobat: Click here to install Acrobat Reader 6.0.

Panda: Click here to start Anti Virus program.

3) Click **"Install Driver",** and then select the country you are at,



PS. If your country is not on the list, please click **"**☞**"** to next page. Select **"Other"**, and then go to 12) to set your modem.

4) After finish country selecting, the window below will appear. Select the ISP, and then click "⏵⏵" to next page.

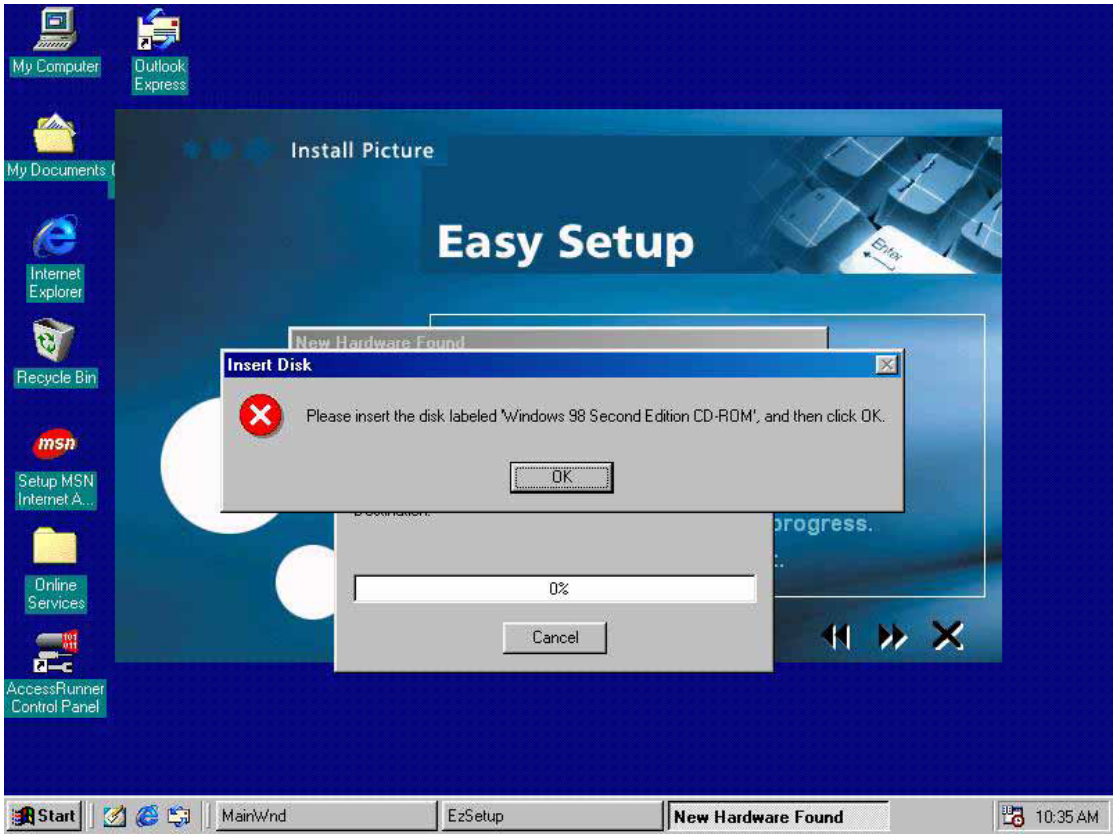
5) Enter your account **"User Name, Password and Password Confirm"** then click **"⏵⏵"** to next page,

6) Confirm modem settings and click "▸▸" to next page,

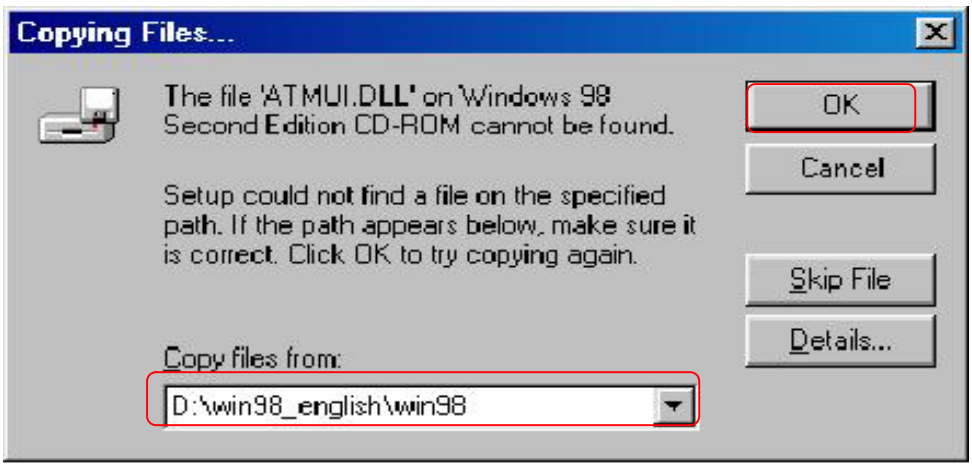
7) Software kit searches available USB modem,

8) After software kit find the device, operating system starts to load USB driver,

9) For Widows 98SE, system will ask you to insert Windows 98SE installation CD, please insert the CD and click **"OK"**



10) Enter correct file path and click **"OK"**:

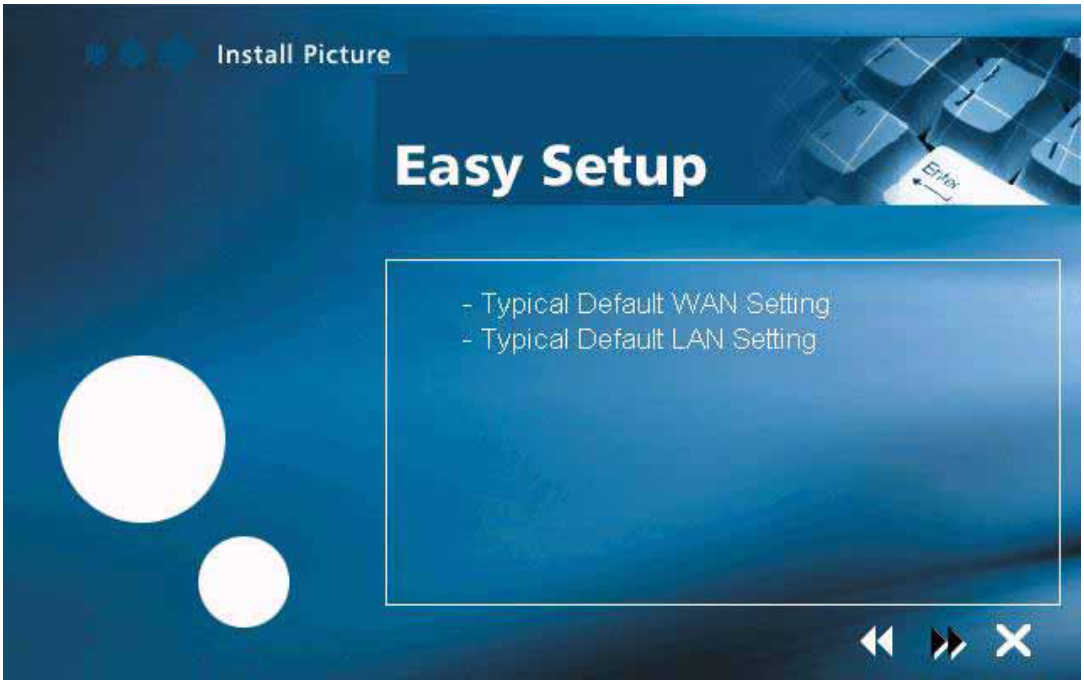

Copying Files...
The file 'ATMUI.DLL' on Windows 98 Second Edition CD-ROM cannot be found.
Setup could not find a file on the specified path. If the path appears below, make sure it is correct. Click OK to try copying again.
Copy files from:
D:\win98_english\win98
OK
Cancel
Skip File
Details...

11) System finishes installation and click "✕" to close installation window:

12) If your country is not on the list, please click **"☞"** to next page and select **"Other"**,

a) After you select **"other"**, the window below will appear. Before you select the connection type, please refer to the following table and then select the connection type,

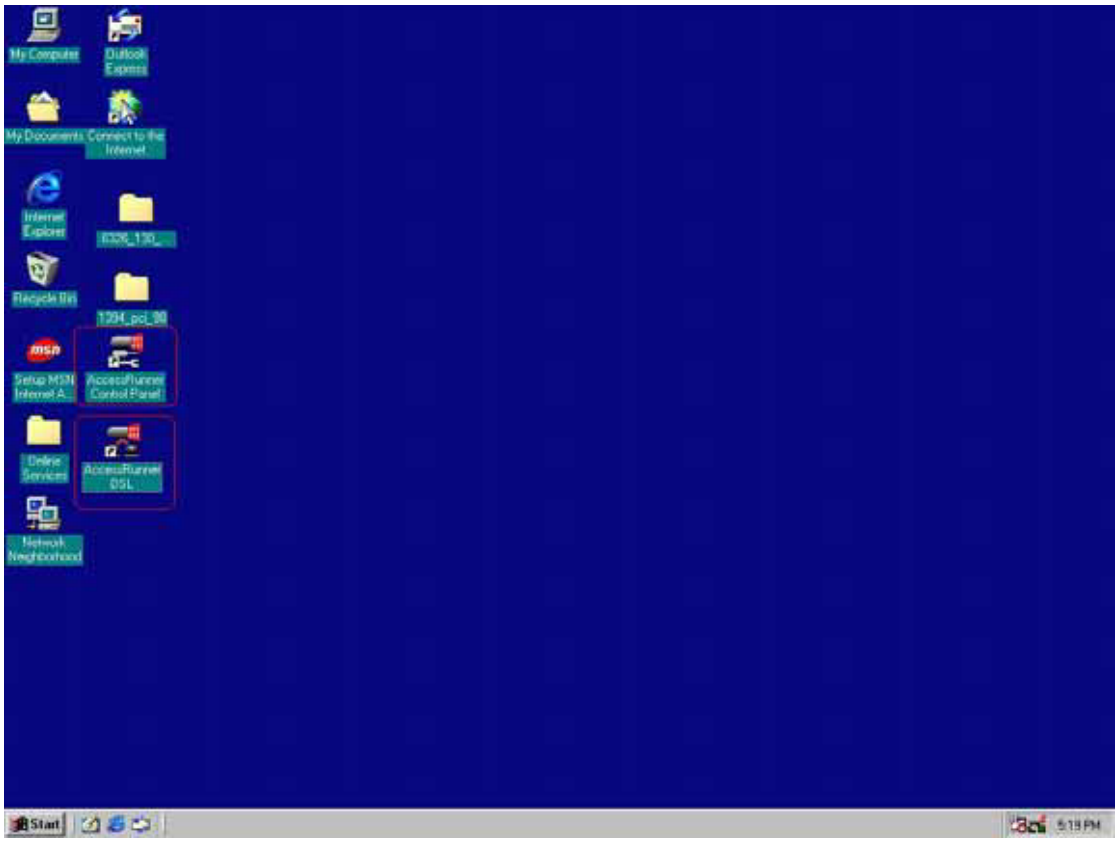
Connection Type	Encapsulation and Multiplexing method	Network Information
WAN	PPP over ATM VCMUX (RFC 2364) PPP over ATM LLC (RFC 2364) PPP over Ethernet VCMUX (RFC 2516) PPP over Ethernet LLCSNAP (RFC 2516)	Internet Account information: • User name • Password
LAN	Bridged IP over ATM LLCSNAP (RFC 1483) Routed IP over ATM LLCSNAP (RFC 1483) Bridged IP over ATM VCMUX (RFC 1483) Classical IP over ATM (RFC 1577)	TCP/IP information: • IP address • Subnet mask • DNS • Gateway



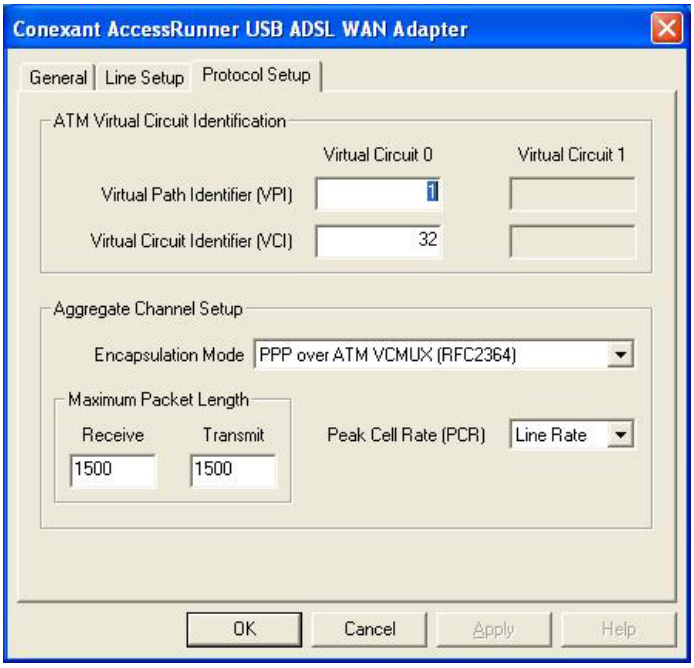
b) After finish connection type selecting, the window below will appear, and then confirm modem settings. All settings here are default, it might not correct settings for your connection, double check settings for your ISP and go to Step 13) for the detail settings.

13) If you want to change ISP connection settings, please go through the follow steps,

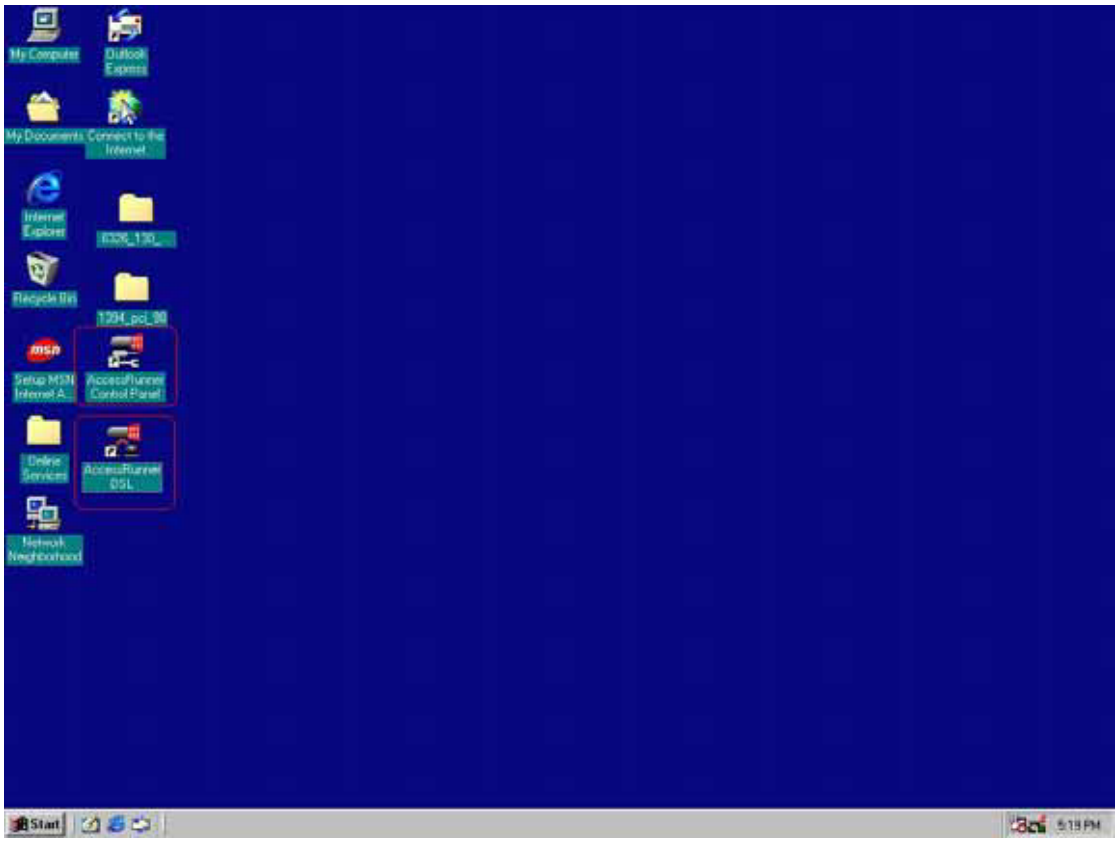
Step1: Double click **"AccessRunner Control Panel"**:



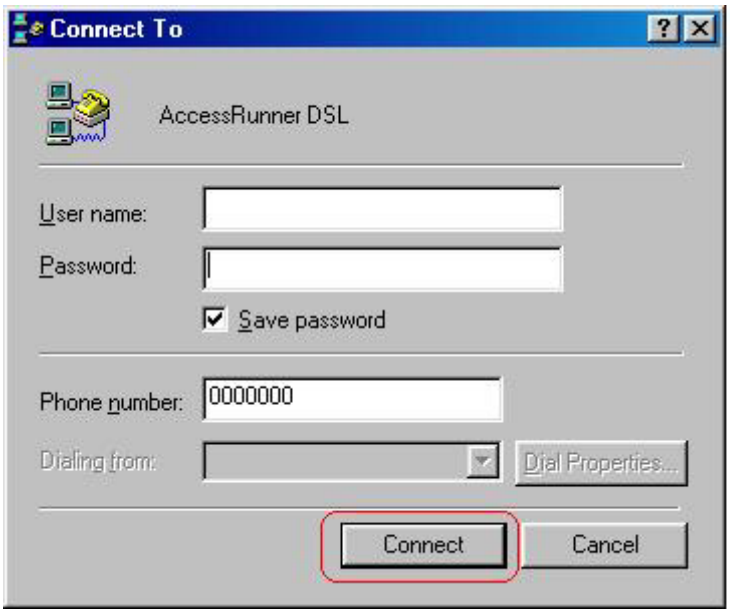
Step2: Once control panel window appears, press **"Alt and C"** then following window will appear. Click **"Protocol Setup"** then enter correct **VPI, VCI** and **Encapsulation Mode** for your ISP. Then Click **"OK"**,



Step3: Connect your ISP with **WAN** connections, click **"AccessRunner DSL"** icon,



Enter correct "**User name** and **Password**" then click "**Connect**" to connect to your ISP:



4.1.2 For Windows 2000 and XP:

1) When detect new hardware window appears, click **"Cancel"**:

Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
This wizard helps you install software for:
ADSL USB MODEM
If your hardware came with an installation CD or floppy disk, insert it now.
What do you want the wizard to do?
Install the software automatically (Recommended)
Install from a list or specific location (Advanced)
Click Next to continue.
< Back
Next >
Cancel

2) Insert "**Easy Setup Software Kit**", front page of Easy Setup window will appear,

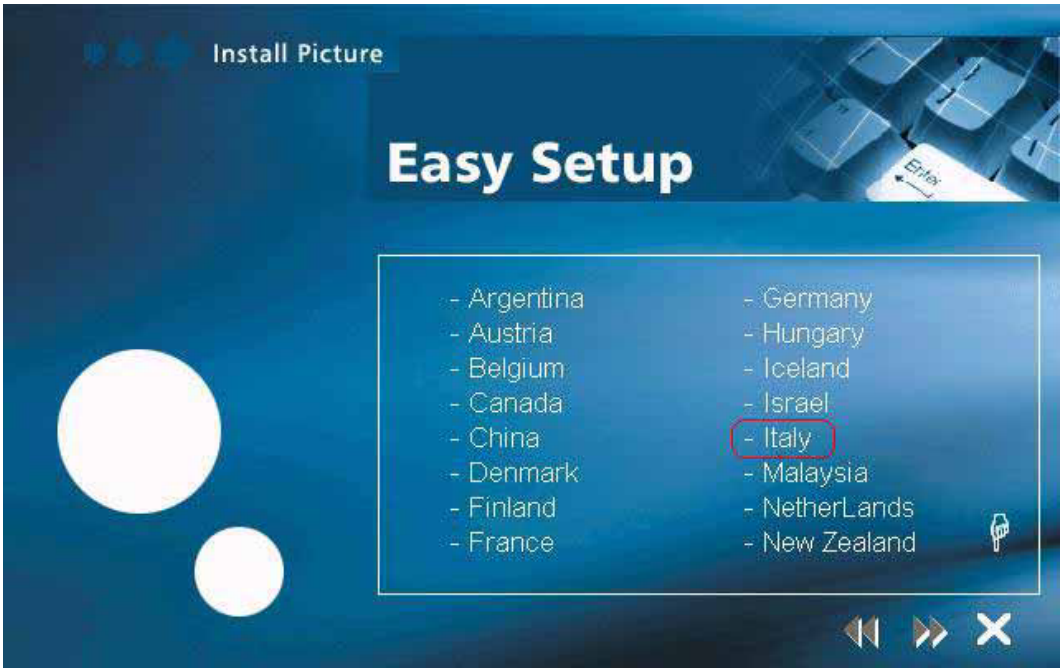
Install Driver: Click here to install ADSL USB Modem driver.

User Manual "Conexant AccessRunner USB ADSL" Click here to read user's manual.

Acrobat: Click here to install Acrobat Reader 6.0.

Panda: Click here to start Anti Virus program.

3) Click **"Install Driver",** and then select the country you are at,



PS. If your country is not on the list, please click **"☞"** to next page and select **"Other"**, and then go to 10) to set your modem.

4) After finish country selecting, the window below will appear. Select the ISP, and then click "⏩" to next page,

5) Enter your account **"User Name, Password and Password Confirm"** then click **"⏩"** to next page,

6) Confirm modem settings and click "⏩" to next page,

7) Software kit searches available USB modem,

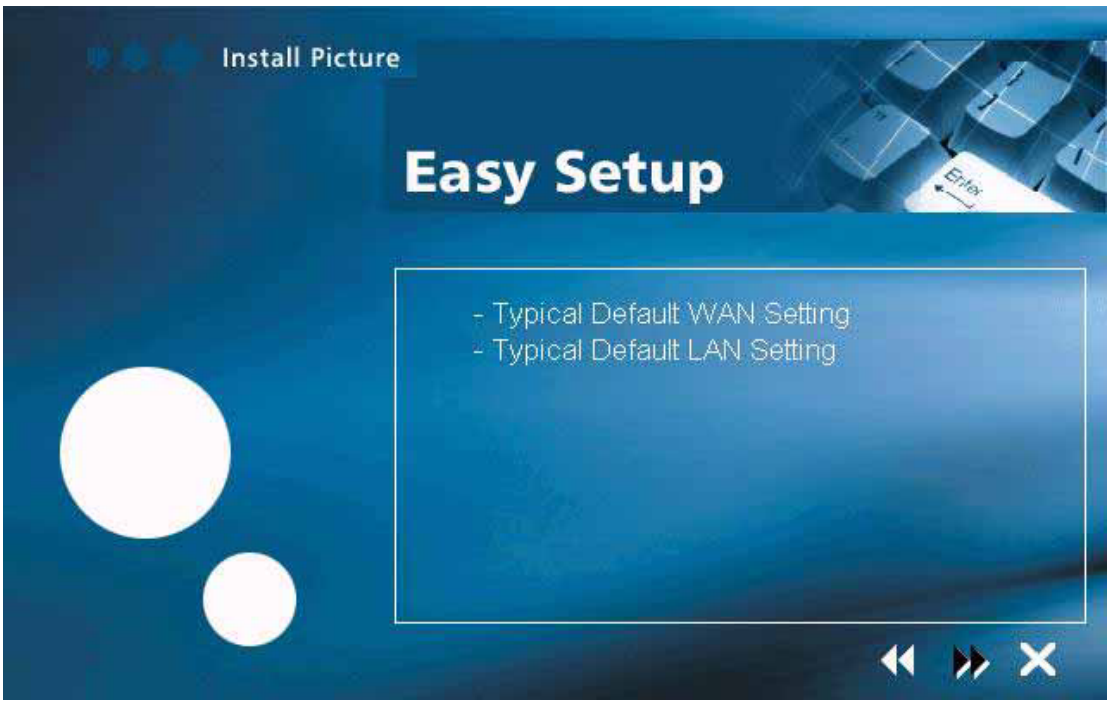
8) After software kit find the device, operating system start to load USB driver,

9) System finishes installation and click "✕" to close installation window,

10) If your country is not on the list, please click **"** **"** to next page and select **"other"**,

a) After you select **"other"**, the window below will appear. Before you select the connection type, please check the following table and then select the connection type,

Connection Type	Encapsulation and Multiplexing method	Network Information
WAN	PPP over ATM VCMUX (RFC 2364) PPP over ATM LLC (RFC 2364) PPP over Ethernet VCMUX (RFC 2516) PPP over Ethernet LLCSNAP (RFC 2516)	Internet Account information: • User name • Password
LAN	Bridged IP over ATM LLCSNAP (RFC 1483) Routed IP over ATM LLCSNAP (RFC 1483) Bridged IP over ATM VCMUX (RFC 1483) Classical IP over ATM (RFC 1577)	TCP/IP information: • IP address • Subnet mask • DNS • Gateway

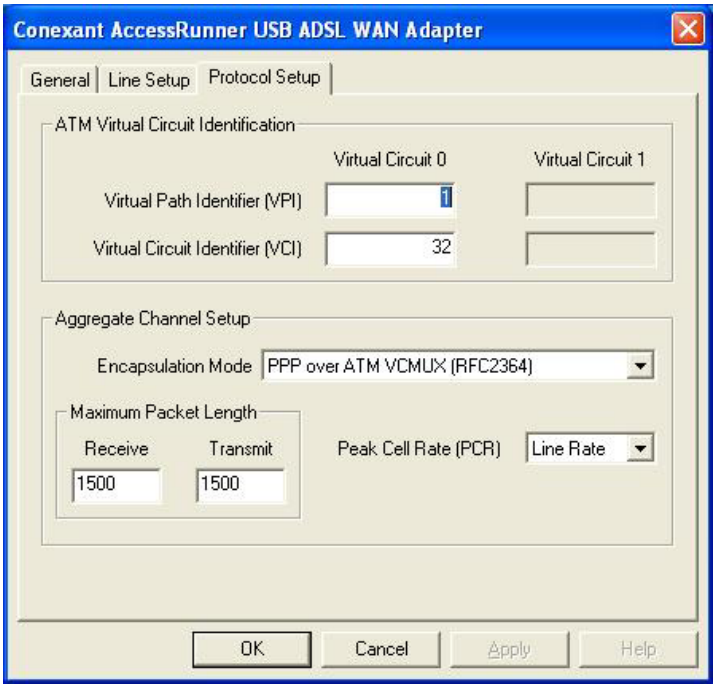


b) After finish connection type selection, the window below will appear, and then confirm modem settings. All settings here are default, it might not correct settings for your connection, double check settings for your ISP and go to Step 11) for the detail settings.

11) If you want to change ISP connection settings, please go through the follow steps,

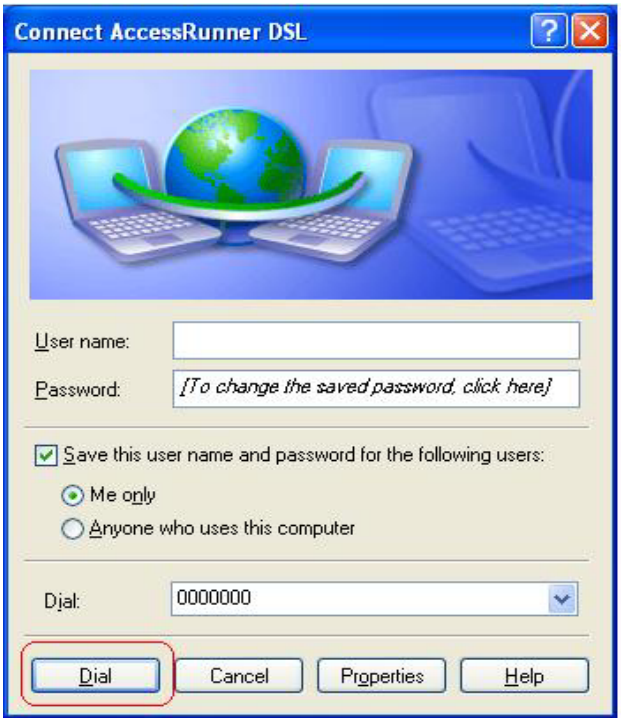
Step1: Double click **AccessRunner Control Panel**:

Step2: Once control panel window appears, press **"Alt and C"** then following window will appear. Click **"Protocol Setup"** then enter correct **VPI, VCI** and **Encapsulation Mode** for your ISP. Click **"OK"**:



Step3: Connect your ISP with **WAN** connections, click **"AccessRunner DSL"** icon:

Enter correct **"User name and Password"**, and then click **"Dial"** to connect to your ISP,



4.2 TCP / IP Configuration

If your ISP provides connection service as following table, you need to follow the steps to set your IP manually.

LAN	Bridged IP over ATM LLCSNAP (RFC 1483)	TCP/IP information: ▪ IP address ▪ Subnet mask ▪ DNS ▪ Gateway
	Routed IP over ATM LLCSNAP (RFC 1483)	
	Bridged IP over ATM VCMUX (RFC 1483)	
	Classical IP over ATM (RFC 1577)	

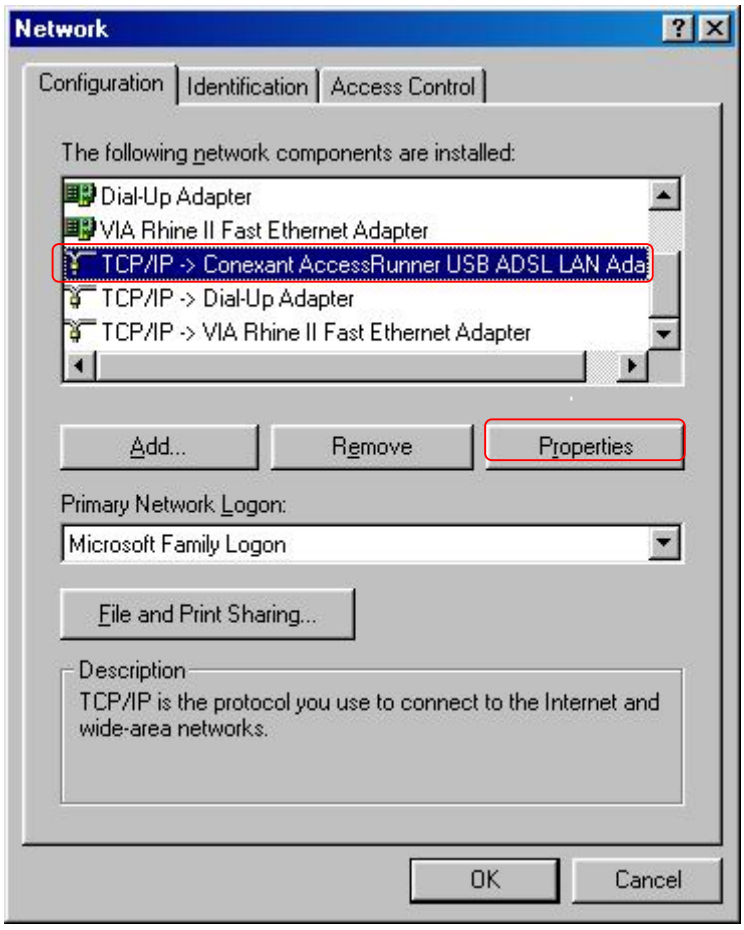
For Windows 98SE and ME

Step 1: Click **Start** then **Settings** and choose **Control Panel**

Step 2: Double click **Network** icon.

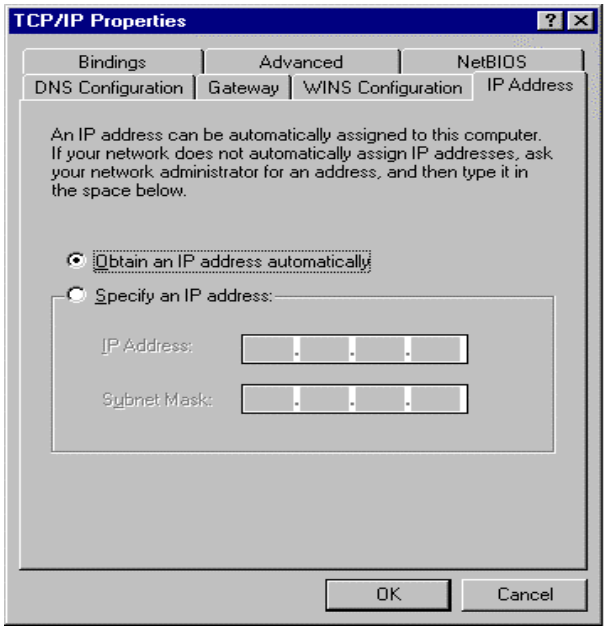
Step 3: Select **Configuration** tab, then choose **TCP/IP** from the list of installed network Components and click **Properties** button.

Step4: You can setup the following configurations in two methods:



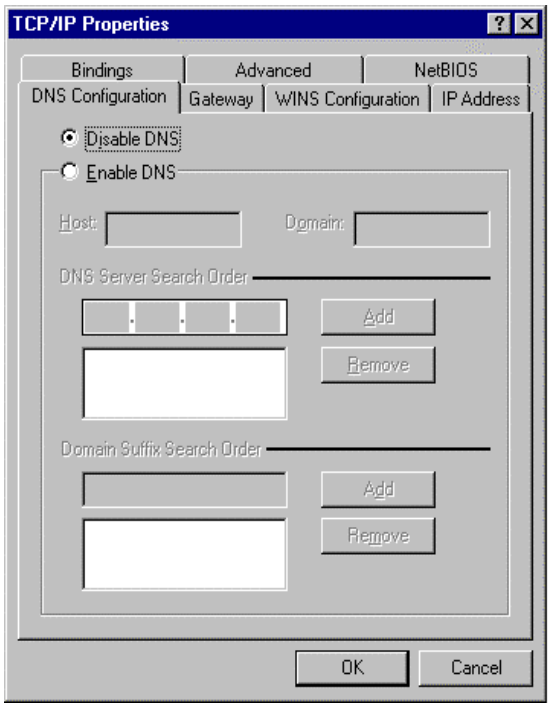
Option1: Get an IP Automatically

1) Choose **Obtain an IP address automatically** option in the next window


TCP/IP Properties
Bindings
Advanced
NetBIOS
DNS Configuration
Gateway
WINS Configuration
IP Address
An IP address can be automatically assigned to this computer. If your network does not automatically assign IP addresses, ask your network administrator for an address, and then type it in the space below.
Obtain an IP address automatically
Specify an IP address:
IP Address:
Subnet Mask:
OK
Cancel

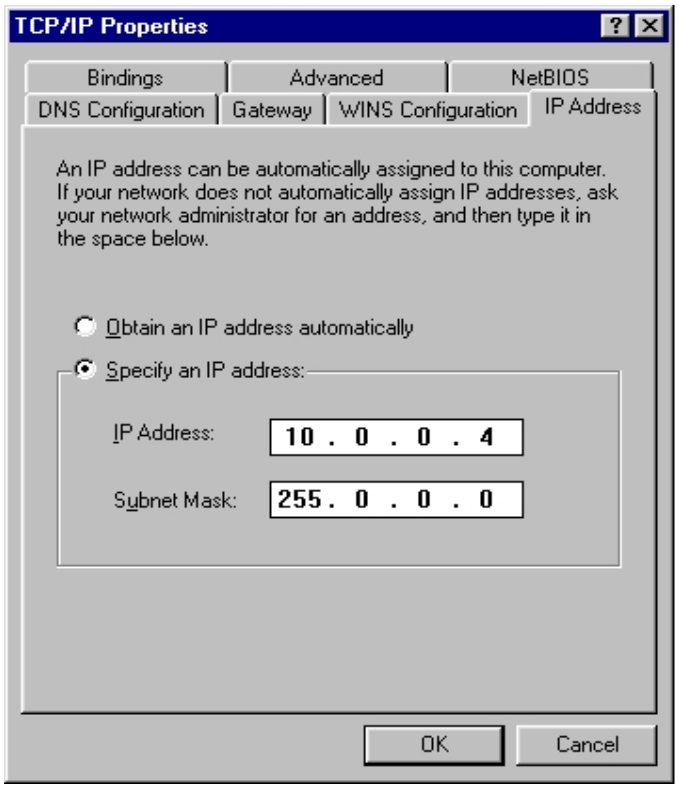
2) Select **Gateway** tab and click **OK**

3) Select **DNS Configuration** tab and select **Disable DNS** then click **OK**

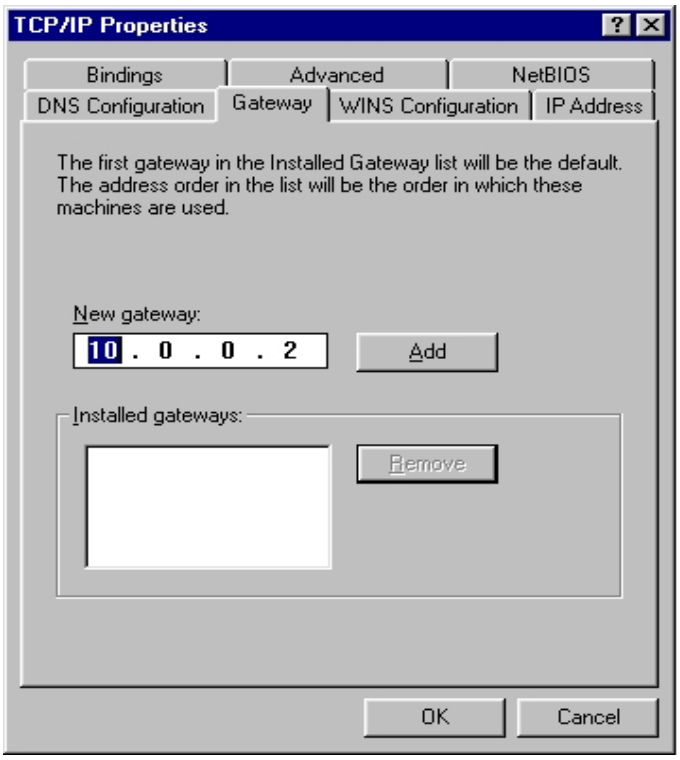


Option2: Configure IP Manually

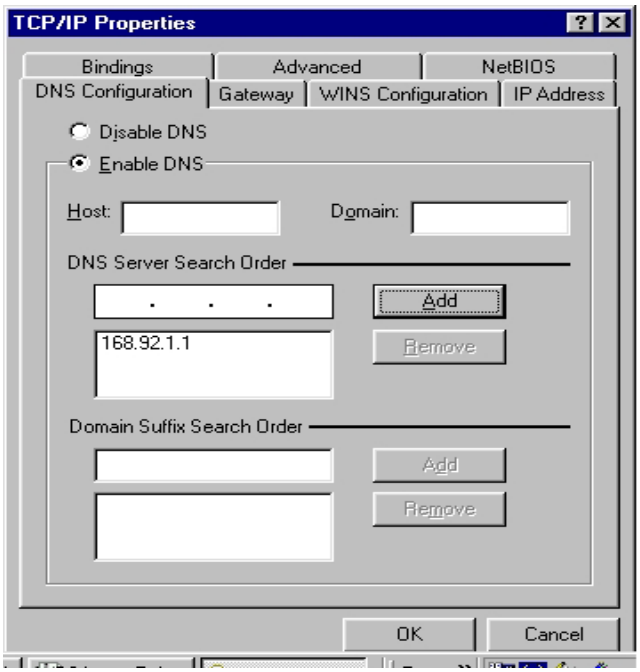
On the IP Address field, enable specify an IP address option. Enter the IP address (e.g. 10.0.0.4) and Subnet Mask (e.g. 255.0.0.0) that provided by your ISP.


TCP/IP Properties
Bindings
Advanced
NetBIOS
DNS Configuration
Gateway
WINS Configuration
IP Address
An IP address can be automatically assigned to this computer. If your network does not automatically assign IP addresses, ask your network administrator for an address, and then type it in the space below.
Obtain an IP address automatically
Specify an IP address:
IP Address:
10 . 0 . 0 . 4
Subnet Mask:
255 . 0 . 0 . 0
OK
Cancel

1) Select **Gateway** tab and add IP Address in the **New gateway** field and click **Add**.



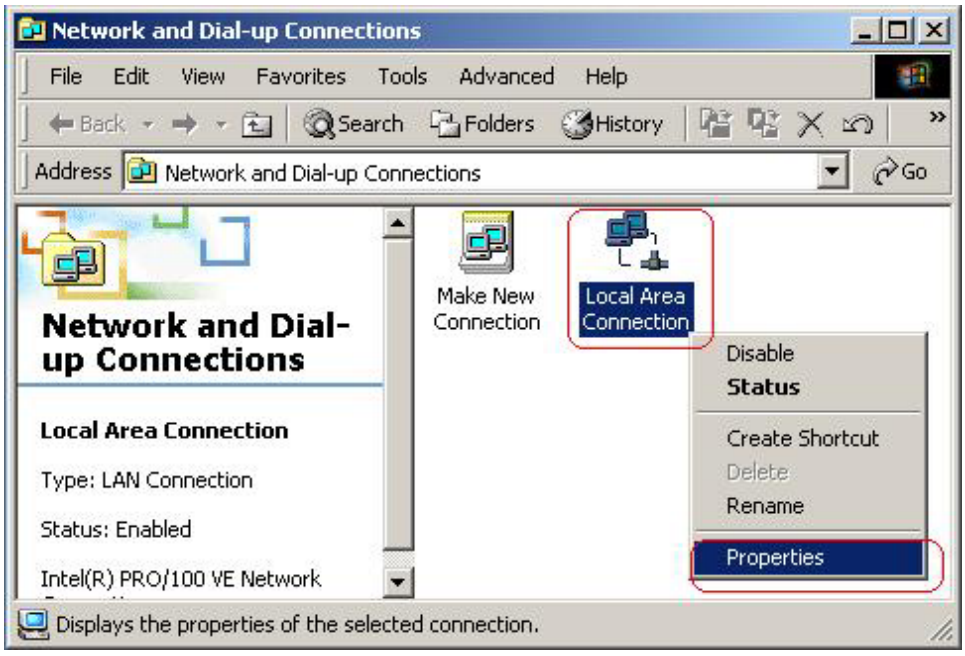
2) Under **DNS Configuration** tab, select **Enable DNS** and add DNS values which provided by your local ISP in **DNS Server Search Order** field then click **Add**.



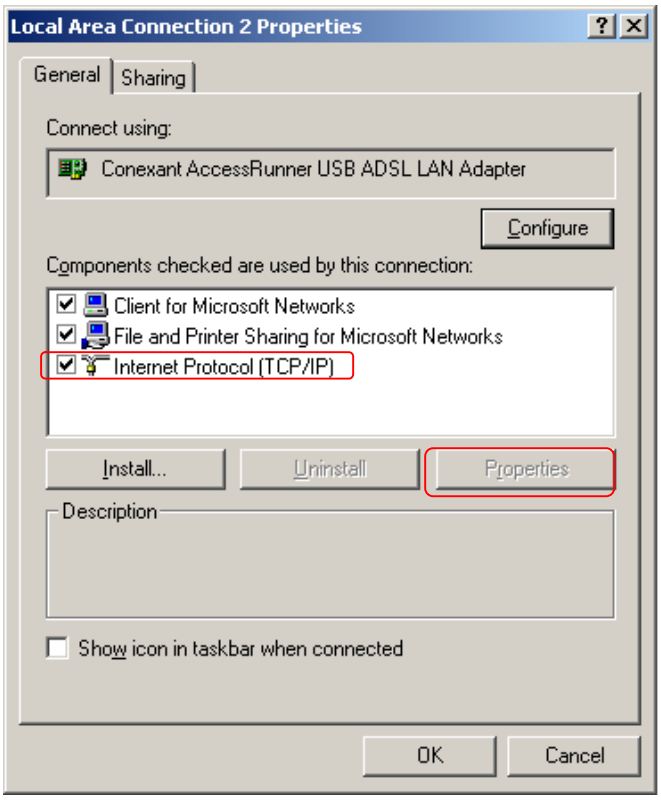
For Windows 2000

Step 1: Right click **My Network Places** and select **Properties** in the main window screen:

Step 2: Right click **Local Area Connection** (local network your ADSL hooked up with)and select **Properties**:

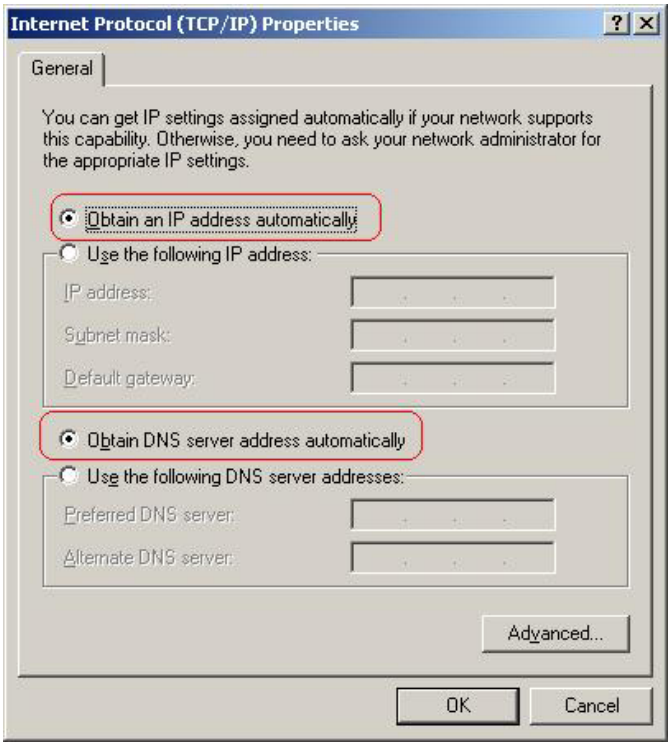


Step 3: Select **Internet Protocol (TCP/IP)** then click **Properties**:



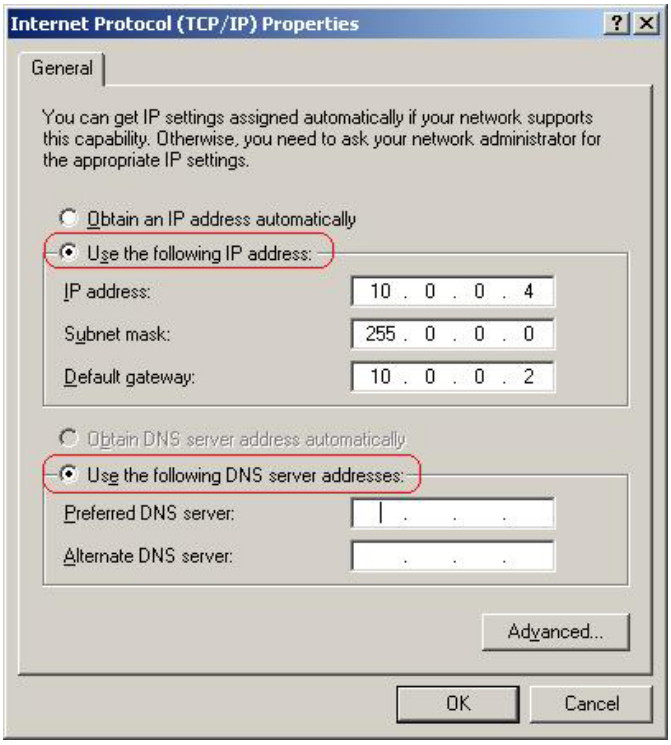
Configure IP Automatically:

Step 4: Select **Obtain an IP address automatically** and **Obtain DNS server address automatically** then click **OK** to complete IP configuring process.:


Internet Protocol (TCP/IP) Properties
General
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address:
Subnet mask:
Default gateway:
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server:
Alternate DNS server:
Advanced...
OK
Cancel

Configure IP Manually:

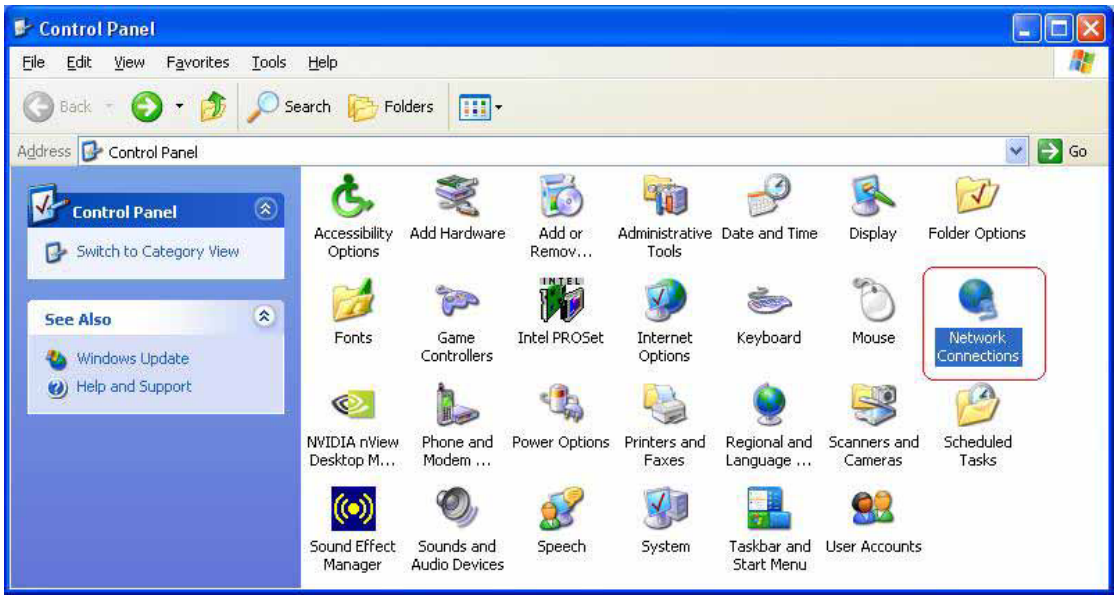
On the IP Address field, enable specify an IP address option. Enter the IP address (e.g. 10.0.0.4), Subnet Mask (e.g. 255.0.0.0) and Default gateway (10.0.0.2) that provided by your ISP. If necessary, enter the DNS server address that provided by your ISP.


Internet Protocol (TCP/IP) Properties
General
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address: 10 . 0 . 0 . 4
Subnet mask: 255 . 0 . 0 . 0
Default gateway: 10 . 0 . 0 . 2
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server:
Alternate DNS server:
Advanced...
OK
Cancel

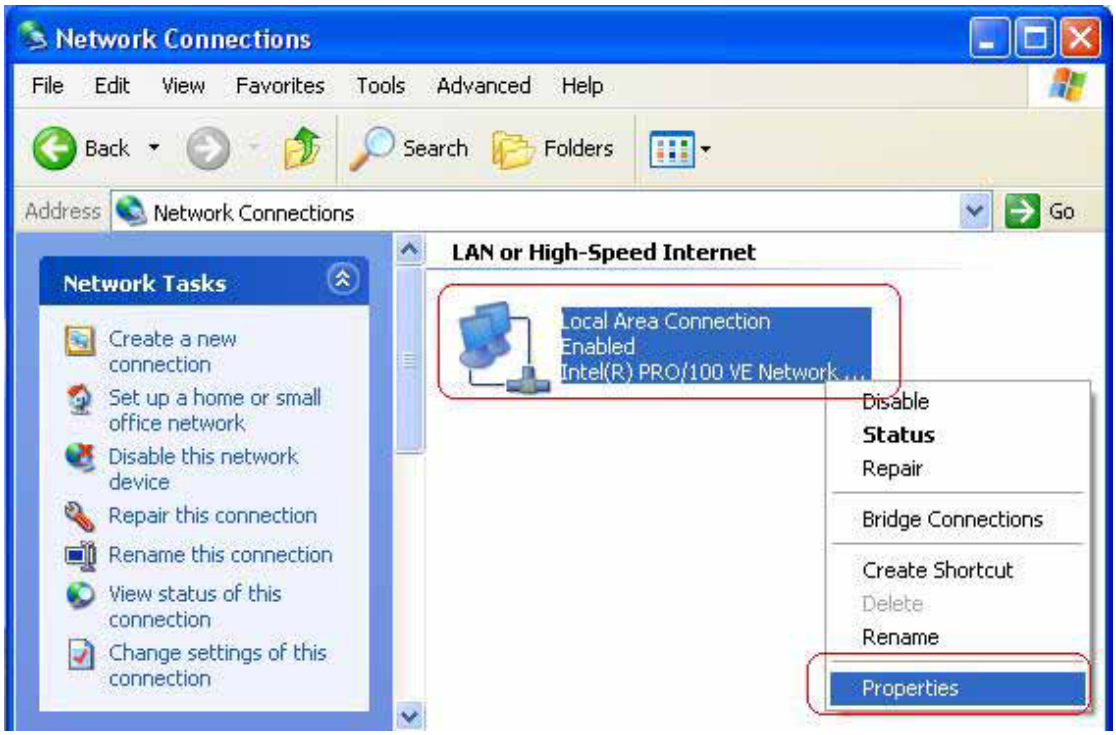
For Windows XP

Step 1: Click **Start** then select **Control Panel** in the main window screen:

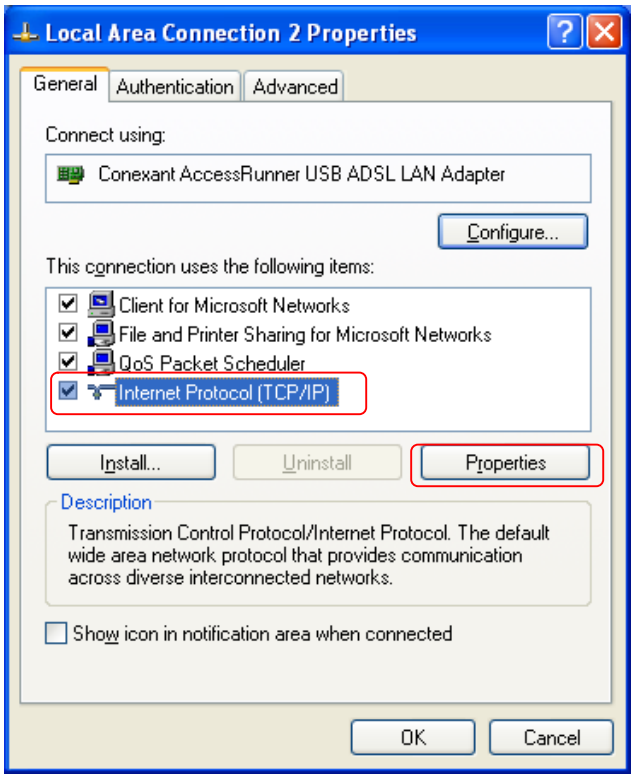
Step 2: Double click **Network Connections** icon:



Step 3: Right click **Local Area Connection** (local network your ADSL hooked up with) then select **Properties**:

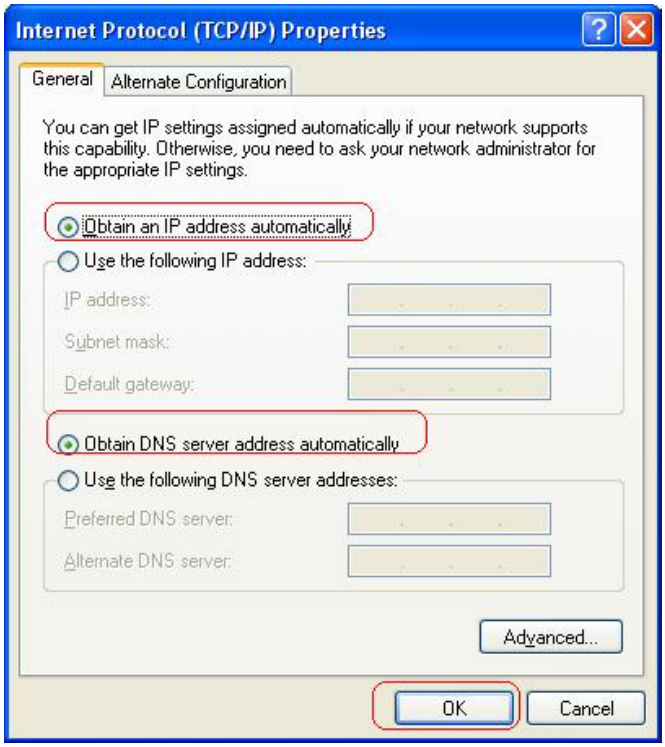


Step 4: Select **Internet Protocol (TCP/IP)** then click **Properties**:



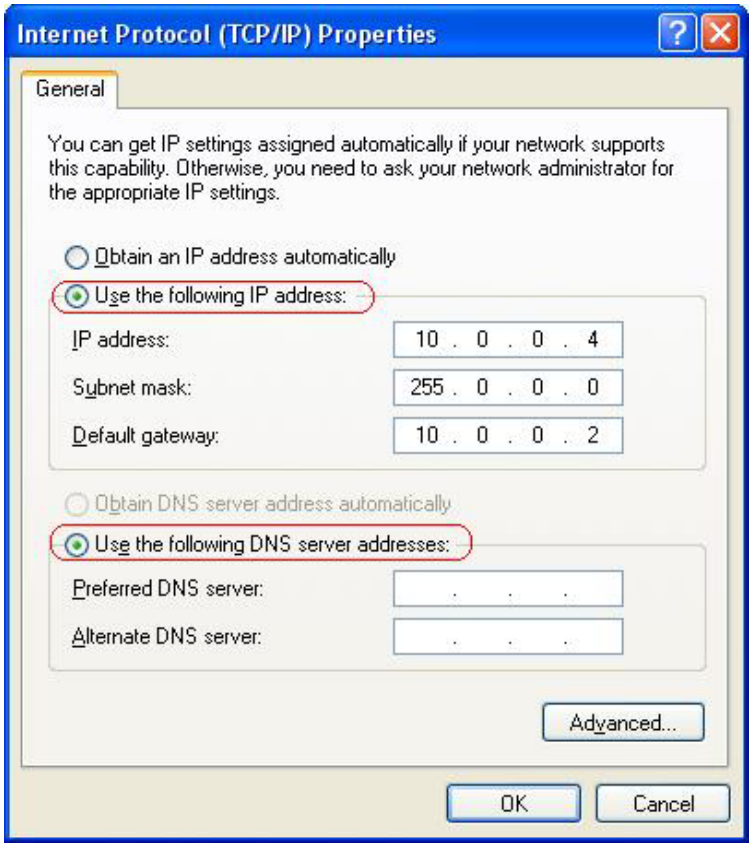
Configure IP address Automatically:

Step 5: Select **Obtain an IP address automatically** and **Obtain DNS server address automatically**:


Internet Protocol (TCP/IP) Properties
General
Alternate Configuration
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address:
Subnet mask:
Default gateway:
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server:
Alternate DNS server:
Advanced...
OK
Cancel

Configure IP Address Manually:

On the IP Address field, enable specify an IP address option. Enter the IP address (e.g. 10.0.0.4), Subnet Mask (e.g. 255.0.0.0) and Default gateway that provided by your ISP. If necessary, enter the DNS server address that provided by your ISP.


Internet Protocol (TCP/IP) Properties
General
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address:
10 . 0 . 0 . 4
Subnet mask:
255 . 0 . 0 . 0
Default gateway:
10 . 0 . 0 . 2
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server:
Alternate DNS server:
Advanced...
OK
Cancel

If you have any troubles to configure or setup this ADSL USB Modem, please contact us. Before contacting us, make sure collect following information. Submit complete detailed information of your problem will help us to provide you accurate answers.

Model Name:

Serial Number:

PC Settings:

Other: